

1 DESCRIPTION

The Safe-Fire driver allows the FieldServer to transfer data to and from devices using Safe-Fire protocol. The FieldServer can only emulate a master.

As Master the number of devices supported is limited to 32 devices. When the Safe-Fire gateway acts as a master, it polls the slave devices. It will request information from the slave devices and receive and process only the expected responses. x

FieldServer Mode	Devices	Comments
Master	32	Maximum number of slave devices available on Safe-Fire network.
Server	0	This driver cannot be configured as Server.

2 FORMAL DRIVER TYPE

Serial

Client only

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible
FS-B35	No
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-1x5x	No
QuickServer FS-QS-12xx	No
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	No
ProtoAir FPA-W34	Yes
ProtoAir FPA-C34	Yes

4 CONNECTION INFORMATION

Connection Type: RS-485/RS-232
 Baud Rates: 19200 (fixed)
 Data Bits: 8 (fixed)
 Stop Bits: 2 (fixed)
 Parity: None (fixed)
 Multidrop Capability: Yes

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
CirrusPro 200D	Factory, Site

6 COMMUNICATION FUNCTIONS

The FieldServer's BIAS register should be set to 'Enable'.

6.1 Supported Requests

Safe-Fire Request Types	Description
Fire-Levels	Detector's Current Fire-Levels for all 4 pipes
Fault-Status	Detector's Current Faults
Air-Flow	Detector's Current Air Flow Values for all 4 pipes
Particle-Level	Detector's Current Particle Level and Gain Setting for all 4 pipes

6.2 Supported Read Operations

Master	Slave
Read Safe-Fire Requests	N/A

6.3 Supported Write (Control) Operations

Master	Slave
N/A	N/A

6.4 Unsupported Functions/Data Types

Function	Reason
Detector time and date, detector text, detector zone/pipe text, detector alarm text, zone/pipe currently being scanned	Function not used to transfer general data